BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Thindlu and Kodigehalli Surrounding Areas in Ward No.09 Kodigehalli.

MODIFIED SCHEDULE - B

Item No	Description of Work	Unit	Modified Approved Qty	Rate Quoted by KV Subba Reddy	
				In Figures	In Words
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications	Cum	649.51	217.56	Rupees Two Hundred Seventeen And Paise Fifty Six Only
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) etc complete as per specifications and directions of engineer in charge of the work.	Sqm	1952.64	116.64	Rupees One Hundred Sixteen And Paise Sixty Four Only
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc complete as per specifications and directions of engineer in charge of the work.	Sqm	358.56	777.62	Rupees Seven Hundred Seventy Seven And Paise Sixty Two Only
4	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc complete as per specifications and directions of engineer in charge of the work.		129.60	1013.12	Rupees One Thousand Thirteen And Paise Twelve Only
5	Providing and laying **Plain cement concrete of mix 1:4:8 with with OPC cement @ 180kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days etc complete as per specifications and directions of engineer in charge of the work.	cum	39.43	6082.38	Rupees Six Thousand Eighty Two And Paise Thirty Eight Only
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm	cum	86.35	8100.69	Rupees Eight Thousand One Hundred And Paise Sixty Nine Only

Item No	Description of Work	Unit	Modified Approved Qty	Rate Quoted by KV Subba Reddy	
				In Figures	In Words
7	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications	Sqm	5.40	94944.69	Rupees Ninety Four Thousand Nine Hundred Forty Four And Paise Sixty Nine Only
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete.	Sqm	435.00	2014.26	Rupees Two Thousand Fourteen And Paise Twenty Six Only
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge	Sqm	17.88	5678.06	Rupees Five Thousand Six Hundred Seventy Eight And Paise Six Only
10	Providing and laying in position **plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work.	cum	18.96	6576.08	Rupees Six Thousand Five Hundred Seventy Six And Paise Eight Only
11	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing etc complete as per specifications and directions of engineer in charge of the work.	Sqm	379.20	1026.45	Rupees One Thousand Twenty Six And Paise Forty Five Only
12	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications		85.17	58.96	Rupees Fifty Eight And Paise Ninety Six Only

Item No	Description of Work	Unit	Modified Approved Qty	Rate Quoted by KV Subba Reddy	
				In Figures	In Words
13	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications	Sqm	1476.79 2935.95	43.32	Rupees Forty Three And Paise Thirty Two Only
14	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications	Sqm	1476.79	6.67	Rupees Six And Paise Sixty Seven Only
15	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications	Cum	36.98	2090.68	Rupees Two Thousand Ninety And Paise Sixty Eight Only
16	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications	Cum	704.45 364.79	2097.34	Rupees Two Thousand Ninety Seven And Paise Thirty Four Only
17	Providing and applying primer coat with SS grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg per m2 using mechanical means.	Sqm	2286.06	35.55	Rupees Thirty Five And Paise Fifty Five Only
18	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm)	Cum	114.30	7091.86	Rupees Seven Thousand Ninety One And Paise Eighty Six Only

Item No	Description of Work	Unit	Modified Approved Qty	Rate Quoted by KV Subba Reddy	
				In Figures	In Words
19	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications	Sqm	1384.88	5.55	Rupees Five And Paise Fifty Five Only
20			2289.52	5.76	Rupees Five And Paise Seventy Six Only
21	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications	Sqm	3674.40	13.33	Rupees Thirteen And Paise Thirty Three Only
22	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen	Cum	146.98	10481.15	Rupees Ten Thousand Four Hundred Eighty One And Paise Fifteen Only
23	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	160.98	476.57	Rupees Four Hundred Seventy Six And Paise Fifty Seven Only
	EIRL				
E1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20	Cum	62.24	1015.52	Rupees One Thousand Fifteen And Paise Fifty Two Only

Item No	Description of Work	Unit	Modified Approved Qty	Rate Quoted by KV Subba Reddy	
				In Figures	In Words
E2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates	Cum	62.24	5735.79	Rupees Five Thousand Seven Hundred Thirty Five And Paise Seventy Nine Only
E3	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work	Cum	62.24	7880.94	Rupees Seven Thousand Eight Hundred Eighty And Paise Ninety Four Only

KV Subba Reddy
Signature of the Contractor

Executive Engineer
Bataravanapura Division